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Computers in manufacturing: towards successful implementation of integrated automation system

[PDF] from pteonline.org

K Dhinesh Kumar, L Karunamoorthy, H Roth... - Technovation, 2005 - Elsevier

... Openness and modularity: IA is open for a broad spectrum of field **devices**. ... Component-based automation: Networking and fieldbus technology considerably simplifies automation in plant and **machine construction**. ... This dramatically reduces the cost of on-**site** commissioning. ...

Cited by 15 - Related articles - All 6 versions

[PDF] CRITICAL SUCCESS FACTORS FOR THE IMPLEMENTATION OF INTEGRATED AUTOMATION SOLUTIONS WITH PC BASED CONTROL

[PDF] from nd.edu

KD Kumar, H Roth... - Proc. of the 10th ..., 2002 - med.ee.nd.edu

... Openness and modularity: IA is open for a broad spectrum of field **devices**. ... based Automation on the basis of networking and field bus technology considerably simplifies automation in plant and **machine construction**. ... This dramatically reduces the cost of on-**site** commissioning. ...

Cited by 1 - Related articles - View as HTML - All 2 versions

A self timed asynchronous router for an heterogeneous parallel **machine**

E Senn... - VLSI, 1998. Proceedings of the 8th ..., 2002 - ieeexplore.ieee.org

... Be- sides, a huge static memory would imply voluminous expensive power supply and cooling **devices**, would be voluminous itself ... controler, a set of adressing processors, memory banks and associated routers, makes a line of the **machine**, equivalent to ... Figure 4: **Construction** ...

Cited by 3 - Related articles - All 4 versions

Construction equipment discovery on a **network**

D Brant, ED Hillen... - US Patent 7,363,137, 2008 - Google Patents

... For example, it can be determined: which units are the master **machines** and which ... wireless communi- The **network** system 100 can further include additional cation **device** 230 (eg ... may be personal computers, serv- computer) that can be carried by on **site construction** per- ers ...

Cited by 1 - Related articles - All 5 versions

Distributed **network** application management system

OBH Clarisse... - US Patent 6,591,290, 2003 - Google Patents

... of processing resources by the use of the Inferno name space **construction** operations of ... is executed on the client process 321 executing on the user application **device** 131 to ... the hot spare replacement: 1. A group of identical server processes is distributed on different **machines**. ...

Cited by 12 - Related articles - All 2 versions

Apparatus for providing shared virtual memory among **interconnected** computer nodes with minimal processor involvement

J Sandberg - US Patent 5,592,625, 1997 - Google Patents
... In the multiprocessor realm, the processors interact in performing programs and sharing resources
such as input and output **devices**. ... The sharing of distrib- uted memory eliminates memory-read
communications between **interconnected machines**, since each **site** in the ...
Cited by 69 - Related articles - All 2 versions

The CRUTIAL way of critical infrastructure protection

AN Bessani, P Sousa, M Correia... - Security & Privacy, ..., 2009 - ieeexplore.ieee.org
... **Site** B **Site** C ... To solve the first problem, we use some **device** (for example, an Ethernet hub) to
broadcast the traffic to all replicas ... His research interests include the **construction** of secure distrib-
uted systems, namely the design of de- pendable intrusion-tolerant architectures and ...
Cited by 10 - Related articles - All 5 versions

Human-**machine** interface system mediating human-computer interaction in communication of information on **network**

T Fujimori - US Patent App. 09/904,460, 2001 - Google Patents
... application nodes, service nodes and composite nodes **interconnected** with a **network**. Herein,
human-**machine** interface functions are actualized in forms of distributed objects allocated to
the nodes and are realized by mediating interaction between the nodes (or **devices**). ...
All 2 versions

A mechanism for the dynamic **construction** of clusters using active networks

[PDF] from psu.edu

P Graham... - Parallel Processing Workshops, 2001. ..., 2002 - ieeexplore.ieee.org
... The selected **site** then becomes a single point of failure and both the **site** and surrounding ... **Devices**
at the **network** edges (which connect to host **machines**) can derive their informa- tion through ...
The **construction** of a simple RAList is illustrated in Figure 5. In this example, there ...
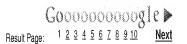Cited by 8 - Related articles - All 7 versions

VLSI considerations for TESH: A new hierarchical interconnection **network** for 3-D integration

VK Jain... - Very Large Scale Integration (VLSI) ..., 2002 - ieeexplore.ieee.org
... Clearly, the plane (large area **device**) described earlier can easily support the vertical wiring
needed for ... be well suited both for planar VLSI implementation, as well as 3-D stack **construction**. ...
to other familar networks, making it a viable candidate for the future tera-ops **machines**. ...
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Risk and reliability assessment for telecommunications networks

GD Wyss, HK Schriner... - 1996 - osti.gov
... model (likely a small fault tree) that examines the combinations of server **machines** that must ... This
section describes the **construction** of generic fault tree modules and the method by ... traffic routing
and switching hardware, and a generic class of end mer **devices**) and architectures ...
Related articles - All 2 versions

Network architecture and communication modules for guaranteeing acceptable control and communication performance for   [PDF] from niu.edu.tw
networked multi-agent systems

FL Lian, JK Yook, DM Tilbury... - ... , IEEE Transactions on, 2006 - ieeexplore.ieee.org
... Networked controllers may also provide a human-**machine** interface to operators or higher-level
managers ... In next section, we will discuss the **construction** of a networked control design chart ...
To guarantee the best control performance, all the net- worked **devices** need the newly ...
Cited by 22 - Related articles - All 6 versions

Method for updating value in distributed shared virtual memory among **interconnected** computer nodes having page table
with minimal processor involvement

J Sandberg - US Patent 5,522,045, 1996 - Google Patents
... memory eliminates memory-read communica- tions between **interconnected machines**, since
each **site** in the ... the structure, control and arrange- ment of these well-known circuits and **devices**
are illustrated ... The inventor does not wish to be limited to a strict **construction** of those ...
Cited by 44 - Related articles - All 2 versions

Web links objects

MG MacPhail - US Patent 6,597,377, 2003 - Google Patents
... The method involves **construction** of a web links object that contains information regarding the
links between ... can store the links object (such as one created by the web **site** designer), or ... relates
to computer sys- tems and, more particularly, to a method and **device** for examining ...
Cited by 20 - Related articles - All 2 versions

System and method for dynamic browser management of web **site**

J Estrada, MA Estrada... - US Patent 7,237,002, 2007 - Google Patents
... NH (US); Maurice E. Shore, Carlisle, MA (US) (73) Assignee: International Business **Machines**
Corporation, Armonk ... "QuickPlace Provides Web-Based Work **Site**", PC World ... DATABASE SERVER
EILE SYSTEM M39 130 DOMINO DATABASES .nsf NOTES **NETWORK** I PRIOR ...
Cited by 21 - Related articles - All 3 versions

Probablistic Logic Modeling of **Network** Reliability for Hybrid **Network** Architectures

GD Wyss, HK Schriner... - Icn, 1996 - computer.org

... systems ranging from individual components within automobiles to large precision **machine** tools
and ... This section describes the **construction** of generic fault tree modules and the method by which ...
MAUs, CAUs, ethernet hubs, and a generic class of end- user **devices**) in generic ...

Cited by 2 - Related articles - BL Direct - All 9 versions

Partial crossbar **interconnect** architecture for reconfigurably connecting multiple reprogrammable logic **devices** in a logic emulation system

MR Butts... - US Patent 5,448,496, 1995 - Google Patents

... Other reconfigurable **interconnect** topolo- gies are also detailed. ... Schmitz, "Emulation of VLSI
Devices using LCAs," VLSI Systems Design, May 20, 1987, pp. 54-62. Abramovici et al, "A Logic
Simulation **Machine**," 19th Design Automation Conference, Paper 7.4, 1982, pp. ...

Cited by 71 - Related articles - All 2 versions

[PDF] Give Me Back My Personal Mainframe! Lessons Learned from Plan B and Position Statement

[PDF] from psu.edu

FJ Ballesteros... - Laboratorio, 2006 - Citeseer

... This simplified the **construction** of tools without having to modify a fileVserver pro gram that
decodes a more ... Placing an indirection between I/O **devices** and name spaces. ... be enough to let
us cope with resources like audio that may be attached to different **machines** at different ...

Related articles - View as HTML - All 24 versions

Algebraic tools for system **construction**

J Bergstra, J Klop... - Logics of Programs, 1984 - Springer

... level s.ymbolic programming level register-transfer level logic level circuit level **device** level ... asks
for a generalisation of the von Neumann and other **machine**- language hierarchies ... Hierarchical
aspects of system **construction** are treated only through the simple algebraic idea of ...

Cited by 10 - Related articles - Library Search - All 8 versions

[CITATION] Performance Evaluation of Awerbuch-Peleg and GSM Schemes for Location Tracking of Mobile Users

IP Weerakoon, DP Sidhu - ... of the 1998 ..., 1998 - Society for Computer Simulation ...

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Scholar [Articles and patents] [anytime] [include citations] [X] Create email alert Results **1 - 10** of about **4,250**. **(0.19 sec)**

Automatic configuration for internet access **device**
JY Li, AL Cobbs... - US Patent 6,012,088, 2000 - Google Patents
... 73] Assignee: International Business **Machines** Corporation, Armonk ... of presence (POP) for an
Internet service provider that has connections for various communications **devices** used by ... access
device that allows **communication between** the Internet and a local area **network** of a ...
Cited by 297 - Related articles - All 5 versions

Apparatus and method in **hierarchy** of internet web pages for fast return to a **network** page
KP Gibson - US Patent 6,052,716, 2000 - Google Patents
... system or IBM " Aptiva" computer, both products of International Business **Machines** Corporation,
located ... such as a conventional microprocessor, and a number of other units **interconnected** via
system ... 28, speaker 46, microphone 48, and/or other user interface **devices**, such as ...
Cited by 10 - Related articles - All 2 versions

Methods and apparatus for interfacing a computer or small **network** to a wide area **network** such as the internet
K Krishnan - US Patent 6,157,950, 2000 - Google Patents
... example, the output of a laser printer is far superior to that of a facsimile **machine**, go Therefore ...
1 is exemplary small office LAN 20, **interconnecting** computers 21-24 ... **devices**, such as printer
25, are connected directly to LAN 20, 20 whereas other peripheral **devices** are connected ...
Cited by 52 - Related articles - All 2 versions

Intelligent mechatronic components: control system engineering using an open distributed architecture
V Vyatkin - ... and Factory Automation, 2003. Proceedings. ETFA ... , 2003 - ieeexplore.ieee.org
... components into a system - it would be enough to **interconnect** the automation ... to): control,
visualization, diagnostics, simulation, implementation of human-**machine** interfaces, etc. ...
communication proxies implement the exchange of adapter interfaces **between devices** by means ...
Cited by 28 - Related articles

Method, computer program product, and system for deriving web transaction performance metrics
WW Chiu, N Halim, JL Hellerstein... - US Patent ..., 2004 - Google Patents
... S. Squillante, Pound Ridge, NY (US) (73) Assignee: International Business **Machines** Corporation,
Armonk ... and a web server and their associated applications **interconnected** by a ... workstation,
hand-held computer, information appliance, etc., including related peripheral **devices**. ...
Cited by 49 - Related articles - All 2 versions

Method of storing and classifying selectable web page links and sublinks thereof to a predetermined depth in response to a single user input

DM Adams, J Maddalozzo Jr, GF McBrearty... - US Patent ..., 2001 - Google Patents

... Shieh, Austin, all ol TX (US) (73) Assignee: International Business **Machines** Corporation, Armonk ... be described as a system of geographically distributed remote computer networks **interconnected** by 55 ... a client displays a browser and data received from the **network** is displayed ...

Cited by 43 - Related articles - All 2 versions

Bridging the gap **between** pervasive **devices** and global networks

[PDF] from icsy.de

D Henrici, P de Waha... - ... Technologies and Systems, ..., 2008 - ieeexplore.ieee.org

... lives: Whether in cars, home entertainment **devices** or in household appliances like washing **machines**, they can ... But with the high number of **devices** and the trend of **interconnecting** those using networks ... Up to level 5, a strict **hierarchy** of **devices** is used to bridge the **device** gap ...

Cited by 1 - Related articles - All 5 versions

[PDF] Distributed computing

[PDF] from uva.es

ML Liu - Distributed Computing, 2007 - infor.uva.es

... called centralized computing. • A distributed system is a collection of independent computers, **interconnected** via a ... perform computing • Server **machines**: computers which provide ... pooling of resources, including CPU cycles, data storage, input/output **devices**, and services. ...

Cited by 43 - Related articles - View as HTML - Library Search - All 5 versions

Multi-route client-server architecture

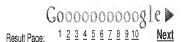P Zulli - US Patent 6,633,901, 2003 - Google Patents

... types of **machines** and **devices**, particularly when such **machines** and **devices** are **interconnected** to a ... The invention is applicable to any sort of **machine** or **device** which might benefit ... there are large numbers of telephones or other per- sonal communications **devices** adhering to ...

Cited by 7 - Related articles - All 2 versions

Service-oriented architectures for **devices**-the SIRENA view

F Jammes... - ... Informatics, 2005. INDIN'05. 2005 3rd ..., 2005 - ieeexplore.ieee.org

... 11] is a protocol for plug-and-play, ad hoc discovery of **network**-connected resources. ... Today, **machine** controls are categorized according to their physical functionality (PLC, motion control, regula ... Thus, **devices** can be integrated into higher-level subsys- tems, possibly at various ...

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Service oriented security **device** management **network**

M Gaug - US Patent App. 11/449,657, 2006 - Google Patents
... messages and data buses; scanning **machine** (or associate) databases; scanning **machine** file
system ... of command signals; remote configuration of individual secu- rity **devices**; threat image ...
searching, displaying, and managing threat data over a distributed **network**; update of ...
All 2 versions

Devices and systems for automatic information exchange **between communication** terminals and electronic databases

JF Cooling. . - US Patent App. 11/011,763, 2004 - Google Patents
... Packet switches, or **network** routers, forward IP datagrams across **interconnected** layer 2 networks. ...
for example, is a software standard for transferring computer files **between machines** with different ...
stored in rooms full of disk drives or other peripheral electronic storage **devices**. ...
All 2 versions

[PDF] An abstract **communication** model

U Glässer, Y Gurevich... - ... Technical Report MSR-TR-2002-55, 2002 - Citeseer
... 3 From Abstract State **Machines** to AsmL ... The multitude of communicators reflects the fact that
a TCP/IP **network** consists of distinct **interconnected** physical networks. ... **devices** are available
(ie reachable over the **network**), what are the services advertised by **devices**, and when ...
Cited by 15 - Related articles - View as HTML - All 8 versions

[PDF] from psu.edu

Cluster computing: the commodity supercomputer

M Baker... - Software: Practice and Experience, 1999 - interscience.wiley.com
... Although most commonly used for disks, other **devices** such as CD-ROMs, printers and scanners
are ... It is a proprietary, high performance **interconnect** used in many of the more expensive ... on a
wide range of platforms from tightly coupled, massively parallel **machines**, through to ...
Cited by 54 - Related articles - BL Direct - All 30 versions

[PDF] from psu.edu

Method for web based storage and retrieval of documents

RA Skarbo, CJ Clitheroe, CC Lawless... - US Patent ..., 2001 - Google Patents
... 106. (Note that the server 100 and videoconfer- encing equipment 102
may be incorporated into a single computing **device**.) Each of these
computing **devices** is **interconnected** by a **network** 108. For ...
Cited by 104 - Related articles - All 3 versions

[PDF] from ethz.ch

[PDF] Content Creation on the Web: Mashing Up the Real World With the Internet

V Trifa · Proceedings of The First International Workshop on … - vs.inf.ethz.ch
… a set of reusable, modular, and interoperable software components that will allow to seamlessly
interconnect any type … to reuse widely used Web standards to build an interoperable **network** of
heterogenous **devices** that can be found and used both by **machines** and humans …
Related articles - View as HTML - All 4 versions

Bridging the Gap **Between** Pervasive **Devices** and Global Networks (long version)

[PDF] from icsy.de

D Henrici, P de Waha… - 2008 - dspace.icsy.de
… Whether in cars, home entertainment **devices** or in household appliances like washing **machines**,
they can be … But with the high number of **devices** and the trend of **interconnecting** those using … An
MC detects changes regarding the sensor and actuator **devices** it is responsible for …
Related articles - All 2 versions

Method and system for dynamic information exchange on mesh **network devices**

R Wang - US Patent App. 11/880,271, 2007 - Google Patents
… not limited to, multimedia capable desktop and laptop computers, facsimile **machines**, mobile
phones … adsl.com." [0036] An operating environment for **devices** and inter- faces of the … on the
processing system or be distributed among multiple **interconnected** processing systems …
Related articles - All 3 versions

Service-oriented paradigms in industrial automation

[PDF] from psu.edu

F Jammes… - Industrial Informatics, IEEE Transactions …, 2005 - ieeexplore.ieee.org
… Today, **machine** controls are categorized according to their physical functionality (programmable
logic … of the XML-based Web Services para- digm for **interconnecting** heterogeneous applications …
and data exchange **between devices**, as well as **between devices** and applications …
Cited by 184 - Related articles - All 9 versions

Information and **Communication** Facilities in Internet

A Andreica - Studia Universitatis Babes-Bolyai-Studia Europaea, 1998 - CEEOL
… 5] contains autonomous computers (which can function independently), **interconnected** by various …
The possibility of connecting mobile computation **devices** within LANs or WANs is … correct
transmission for data flows **between** different **machines** (**addressing** mechanisms use IP …
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